ABSTRACT OF THE DISCLOSURE

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2 A hypocycloid reducing apparatus includes a hollow outside bracket, a 3 hollow inside bracket and a driven input that is rotated by a rotating mechanism. such as a motor. The outside bracket has a passage with N quantity of lobe 4 grooves. The inside is rotatably mounted in the passage of the outside bracket 5 6 and has an inner space. M quantity of through holes and an output shaft. The through holes are arranged in an annular arrangement, are aligned with the lobe 7 grooves and each through hole holds a roller. The driven input is mounted rotatably in the inner space and has an off-center assembly to encounter 9 sequentially with each roller to actuate rotating the inside bracket. Therefore, a 10 11 speed of revolution of the rotating mechanism is reduced to the output shaft. A 12 volume of the reducing apparatus is minimized, as is noise produced during 13 operation.